

**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter claimed and for which a patent is sought on the invention entitled CONSTRUCTION OF TRAINABLE SEMANTIC VECTORS AND CLUSTERING, CLASSIFICATION, AND SEARCHING USING A TRAINABLE SEMANTIC VECTOR, the specification of which

☒ is attached hereto.

☐ was filed on      as Application Serial No.      and was amended on      (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is known to me to be material to patentability in accordance with Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

**Prior Foreign Applications(s):**

Number	Country	Day/Month/Year filed	Priority Claimed
			<input type="checkbox"/>
			<input type="checkbox"/>

I hereby claim the benefit under 35 USC §119(e) of any United States provisional application(s) listed below.

**Prior Provisional Application(s):**

Application Number	Filing Date
Not yet assigned (attorney docket # 55653-011)	January 27, 2000

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

**Prior U.S. Application(s):**

Serial No.	Filing Date	Status: Patented, Pending, Abandoned
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001

of Title 18 of the United States Code and that such willful false statement may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) and/or agent(s): Stephen A. Becker, Reg. No. 26,527; John G. Bisbikis, Reg. No. 37,095; Daniel Bucca, Reg. No. 42,368; Kenneth L. Cage, Reg. No. 26,151; Carina M. Tan, Reg. No. P-45,769; Stephen C. Carlson, Reg. No. 39,929; Jennifer Chen, Reg. No. 42,404; Bernard P. Codd, Reg. No. P-46,429; Thomas A. Corrado, Reg. No. 42,439; Lawrence T. Cullen, Reg. No. 44,489; Paul Devinsky, Reg. No. 28,553; Luan Do, Reg. No. 38,434; Margaret M. Duncan, Reg. No. 30,879; Brian E. Ferguson, Reg. No. 36,801; Michael E. Fogarty, Reg. No. 36,139; John R. Fuisz, Reg. No. 37,327; Willem F. Gadiano, Reg. No. 37,136; Keith E. George, Reg. No. 34,111; Matthew V. Grumbling, Reg. No. 44,427; John A. Hankins, Reg. No. 32,029; Joseph Hyosuk Kim, Reg. No. 41,425; Eric J. Kraus, Reg. No. 36,190; Jack Q. Lever, Reg. No. 28,149; Raphael V. Lupo, Reg. No. 28,363; Christine F. Martin, Reg. No. 39,762; Michael A. Messina, Reg. No. 33,424; Eugene J. Molinelli, Reg. No. 42,901; Dawn L. Palmer, Reg. No. 41,238; Joseph H. Paquin, Jr., Reg. No. 31,647; Scott D. Paul, Reg. No. 42,984; William D. Pegg, Reg. No. 42,988; Robert L. Price, Reg. No. 22,685; Thomas D. Robbins, Reg. No. 43,669; Gene Z. Robinson, Reg. No. 33,351; Joy Ann G. Serauskas, Reg. No. 27,952; Daniel H. Sherr, Reg. No. P-46,425; David A. Spenard, Reg. No. 37,449; Arthur J. Steiner, Reg. No. 26,106; David L. Stewart, Reg. No. 37,578; Wesley Strickland, Reg. No. 44,363; Michael D. Switzer, Reg. No. 39,552; Leonid D. Thenor, Reg. No. 39,397; Keith J. Townsend, Reg. No. 40,358; Daniel S. Trainor, Reg. No. 43,959; Cameron K. Weiffenbach, Reg. No. 44,488; Aaron Weisstuch, Reg. No. 41,557; Edward J. Wise, Reg. No. 34,523; Alexander V. Yampolsky, Reg. No. 36,324; and Robert W. Zelnick, Reg. No. 36,976 all of

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with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and all future correspondence should be addressed to them.

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Full name of sole or first inventor: Randall J. Calistri-Yeh

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Inventor's signature: *Randall J. Calistri-Yeh*

Date: 4/23/2000

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Residence: Webster, New York

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Citizenship: USA

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Post Office Address: 495 Pellet Road, Webster, New York 14580

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Full name of second inventor: Bo Yuan

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Inventor's signature: *Bo Yuan*

Date: 4/28/2000

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Residence: Webster, New York

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Citizenship: People's Republic of China

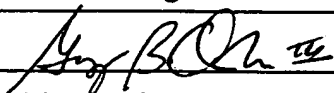
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Post Office Address: 745 Mt. Vista Lane, Webster, York 14580

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Full name of third inventor: George B. Osborne

Inventor's signature:



Date: Apr 28, 2000

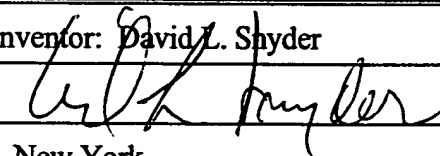
Residence: Macedon, New York

Citizenship: USA

Post Office Address: 3664 Stalker Road, Macedon, New York 14502

Full name of fourth inventor: David L. Snyder

Inventor's signature:



Date: April 29, 2000

Residence: Pittsford, New York

Citizenship: USA

Post Office Address: 52 Crestview Drive, Pittsford, New York 14534

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of :  
Randall J. CALISTRI-YEH, et al. :  
Serial No.: 09/562,916 : Group Art Unit:  
Filed: May 02, 2000 : Examiner:  
For: CONSTRUCTION OF TRAINABLE SEMANTIC VECTORS AND  
CLUSTERING, CLASSIFICATION, AND SEARCHING USING A TRAINABLE  
SEMANTIC VECTOR

**TRANSMITTAL OF VERIFIED STATEMENT**  
**CLAIMING SMALL ENTITY STATUS**

Honorable Commissioner of  
Patents and Trademarks  
Washington, DC 20231

Sir:

Transmitted herewith for filing in the above referenced application is the following:

VERITIFED STATEMENT CLAIMING SMALL ENTITY STATUS –  
SMALL BUSINESS CONCERN

Respectfully submitted,

MCDERMOTT, WILL & EMERY



Leonid D. Thenor  
Registration No. 39,397

600 13<sup>th</sup> Street, N.W.  
Washington, DC 20005-3096  
(202) 756-8000 LDT:dtb  
**Date: June 30, 2000**  
Facsimile: (202) 756-8087

Applicant or Patentee: Randall J. Calistri-Yeh, et al.

Attorney's Docket No.: 55653-013

Serial or Patent No.: Not Yet Assigned

Filed or Issued: May 2, 2000

For: CONSTRUCTION OF TRAINABLE SEMANTIC VECTORS AND CLUSTERING, CLASSIFICATION, AND SEARCHING USING A TRAINABLE SEMANTIC VECTOR

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS  
(37) CFR 1.9(f) and 1.27(c) - SMALL BUSINESS CONCERN**

I hereby declare that I am

- ☐ the owner of the small business concern identified below:  
☐ an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF ORGANIZATION: MANNING AND NAPIER INFORMATION SERVICES, LLC

ADDRESS OF ORGANIZATION: 1100 Chase Square, Rochester, NY 14604

I hereby declare that the above identified small business concern qualified as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled by inventor(s) described in

- ☒ the specification filed herewith.  
☐ application Serial No. , filed  
☐ patent no. , issued

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below\* and no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e). \*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

Full Name: \_\_\_\_\_

Address: \_\_\_\_\_

☐ Individual ☐ Small Business Concern ☐ Non-Profit Organization

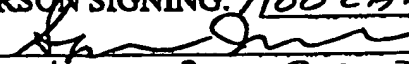
Full Name: \_\_\_\_\_

Address: \_\_\_\_\_

☐ Individual ☐ Small Business Concern ☐ Non-Profit Organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING: SEYMOUR MANELLO  
TITLE IN ORGANIZATION: VICE PRESIDENT - BUSINESS RELATIONS  
ADDRESS OF PERSON SIGNING: 1100 CHASE SQ, RUGHESTEN, NY 14607  
SIGNATURE:   
DATE: JUNE 29, 2000